



DEPARTMENT OF NEUROPATHOLOGY

Hernando Mena, COL, MC, USA
Chairperson
Date of Appointment - 6 March 1995

MISSION

The Department of Neuropathology provides diagnostic consultation and conducts research and educational programs related to diseases of the nervous and neuromuscular systems.

ORGANIZATION

The department is organized into two divisions and the Office of the Chairperson

Division of Neuropathology—James M. Henry, M.D.

Division of Neuromuscular Pathology—Robert V. Jones, COL, MC, USA

STAFF

- Medical*
- Hernando Mena, COL, MC, USA, Chairperson
 - (D) Vernon W. Armbrustmacher, Col, USAF, MC, Consultant
 - Robert V. Jones, COL, MC, USA, Assistant Chairperson
 - James M. Henry, M.D., Chief, Division of Diagnostic Neuropathology
 - (A) Kondi Wong, Maj, USAF, MC, Staff Pathologist
 - (A) Alan L. Morrison, LCDR, MC, USN, Fellow
 - (A) Carlos H. Colegial, M.D., Fellow
 - (A) Choukria Mered, M.D., Research Assistant
- Administrative*
- Constance Creasey, Secretary

CONSULTATION

Cases

<i>Description</i>	<i>Received</i>	<i>Reported</i>
Surgical	1,133	1,100
Autopsy	88	68
Military	396	376
Intramural	480	460
Civilian	810	740

The consultations concerned chiefly diseases of the central and peripheral nervous system and medical disorders of skeletal muscle. The department also provides neuropathology review on selected cases from the Office of the Armed Forces Medical Examiner.

RESEARCH

The following clinicopathologic studies are in progress in collaboration with members of other AFIP departments or institutions elsewhere:

1. Inflammatory pseudotumor and sinus histiocytosis with massive lymphadenopathy of the central nervous system, Dr. Mena.
2. Extracerebellar hemangioblastomas, Dr. Mena.
3. Pituitary neoplasms in the first two decades of life, Dr. Mena.
4. Paragangliomas of the spinal cord, Dr. Mena.
5. Extraventricular cerebral ependymomas, Dr. Mena.
6. Central nervous system gangliomas, Dr. Mena.
7. Comparative study of central neurocytoma and intraventricular oligodendrogliomas, Drs. H. Mena and R. V. Jones.
8. Recurrent meningiomas, Drs. Colegial and Mena.
9. Central nervous system intravascular lymphomas, Drs. Colegial and Mena.
10. Central nervous system amyloidomas, Drs. Morrison and Mena.
11. Choroid plexus carcinomas, Drs. Morrison and Mena.
12. Acute multiple sclerosis, Dr. Henry.
13. Alzheimer's disease, Dr. Henry.
14. Spinal cord gliomas, Dr. Henry.
15. Radiation injury to the central nervous system, Dr. Henry.
16. Chordomas in children, Drs. Morrison and Henry.
17. Infundibulomas Dr. Henry.
18. Granulomatous angiitis of the central nervous system, Dr. Wong.
19. Primary cerebellar Hodgkin's disease, Dr. Wong.
20. Fetal neuropathology after intrauterine surgery, Dr. Wong.
21. Encapsulated acoustic schwannomas, Dr. Wong.
22. Receptor-mediated calcium response in prion-infected cells, Dr. Wong.

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Dr. Wong serves as faculty member for the pathology course for second-year medical students at the University of California in Berkeley. He was invited as guest lecturer for the teaching programs of the Departments of Pathology at Wilford Hall Medical Center, Lackland, AFB, Texas, and Brook Army Medical Center, San Antonio, Texas.

GOALS

Our goals are to:

1. Implement new diagnostic methods, including use of immunohistochemistry, in muscle biopsies.
2. Expand course material offered by the department.
3. Consolidate the fellowship program with recruitment of new fellows each year to maintain its continuity.
4. Continue active participation in national and international meetings related to the neurosciences.

PRESENTATIONS

1. April 1995: Washington, D.C., AFIP 5th Annual Anatomic Pathology Update, "Gliomas," James M. Henry, M.D.
2. April 1995: Washington, D.C., AFIP 5th Annual Anatomic Pathology Uupdate, "Pathology of Skeletal Muscle," Robert V. Jones, COL, MC, USA.
3. May 1995: San Juan, Puerto Rico, AFIP course, Controversies and Recent Advances in Surgical Pathology, "Gliomas," Hernando Mena, COL, MC, USA.
4. May 1995: San Juan, Puerto Rico, AFIP course, Controversies and Recent Advances in Surgical Pathology, "Embryonal and Neuronal Tumors of the Central Nervous System," Hernando Mena, COL, MC, USA.
5. May 1995: San Juan, Puerto Rico, AFIP course, Controversies and Recent Advances in Surgical Pathology, "Pathology of Skeletal Muscle," Hernando Mena, COL, MC, USA.
6. September 1995: San Francisco, Calif., University of California, Berkeley-San Francisco Medical School Combined Pathology Program, "Introduction to Neuropathology," Kondi Wong, Maj, USAF, MC.
7. September 1995: San Francisco, Calif., University of California, Berkeley-San Francisco Medical School Combined Pathology Program, "Tumors of the Central Nervous System," Kondi Wong, Maj, USAF, MC.
8. September 1995: San Francisco, Calif., University of California, Berkeley-San Francisco Medical School Combined Pathology Program, "Neurodegenerative, Dementing, and Demyelinating Diseases," Kondi Wong, Maj, USAF, MC.
9. October 1995: Charleston, S.C., AFIP course, Difficult Diagnosis in Surgical Pathology, "Pineal Neoplasms and Cysts," Hernando Mena, COL, MC, USA.
10. October 1995: Charleston, S.C., AFIP course, Difficult Diagnosis in Surgical Pathology, "Central Nervous System Sarcomas," Hernando Mena, COL, MC, USA.
11. October 1995: Washington, D.C., AFIP Professional Staff Conference, "Spectrum of Cortical and Subcortical Dementias," Hernando Mena, COL, MC, USA; Robert V. Jones, COL, MC, USA; James M. Henry, M.D.; and Kondi Wong, Maj, USAF, MC.
12. November 1995: Washington, D.C., Howard University Hospital, guest lecturer, Department of Neurology, "Biochemistry of Neuronal Storage Disorders," Robert V. Jones, COL, MC, USA.
13. November 1995: Lackland AFB, Texas, Wilford Hall Medical Center, guest lecturer, Department of Pathology, "Neurodegenerative Diseases," "Pathology of Skeletal Muscle," "Pathology of Peripheral Nerve," "Tutorial/Glass Slide Session," "Neoplastic and Non-neoplastic Diseases of the CNS for Surgical Pathologists," "Frozen Section Diagnosis," Kondi Wong, Maj, USAF, MC.

14. November 1995: San Antonio, Texas, Brook Army Medical Center, guest lecturer, Department of Pathology, "Neurodegenerative Diseases," Kondi Wong, Maj, USAF, MC.
15. November 1995: Washington, D.C., Howard University Hospital, guest lecturer, Department of Neurology, "Gliomas," James M. Henry, M.D.

PUBLICATIONS

Journal Articles

1. Wong K, Raisanen J, Taylor SL, McDermott MW, Wilson CB, Gutin PH. Pituitary adenoma as an unsuspected clival tumor. *Am J Surg Pathol.* 1995;19:900-903.
2. Bealer JF, Raisanen J, Skarsgård ED, Long SR, Wong K, Filly RA, Adzick NS, Harrison MR. The incidence and spectrum of neurologic injury after open fetal surgery. *J Pediatr Surg.* 1995;30:1150-1154.
3. Chiechi MV, Smirniotopoulos JG, Jones RV. Intracranial subependymomas: CT and MR imaging features in 24 cases. *AJR Am J Roentgenol.* 1995;165:1245-1250.
4. Mena H, Rushing EJ, Ribas JL, Delahunt B, McCarthy WF. Tumors of pineal parenchymal cells: a correlation of histological features, including nucleolar organizer regions, with survival in 35 cases. *Hum Pathol.* 1995;26:20-30.
5. Chiechi MV, Smirniotopoulos JG, Mena H. Pineal parenchymal tumors: CT and MR features. *J Comput Assist Tomogr.* 1995;19:509-517.
6. Rushing EJ, Mena H, Smirniotopoulos JG. Mesenchymal chondrosarcoma of the cauda equina. *Clin Neuropathol.* 1995;14:150-153.

Books and chapters

1. Henry JM. Central nervous system manifestations of systemic lupus erythematosus. In: Antonovych TT, ed. *Pathology of Systemic Lupus Erythematosus.* Washington, DC: Armed Forces Institute of Pathology, American Registry of Pathology; 1995:141-156.

Abstracts

1. Rushing E, Armonda R, Ansari Q, Mena H. Mesenchymal chondrosarcoma: a clinicopathologic and flow cytometric study of 13 cases presenting in the central nervous system. *J Neuropathol Exp Neurol.* 1995;54:457.